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Applying a constant negative pressure around the ribcage and/or abdomen of the patient during inspiration

Synchronizing the triggering and termination of the application of negative pressure around the ribcage and/or abdomen of the patient during inspiration with the triggering and termination of the application of the positive pressure to the patient's airways

Detecting neural inspiratory activation

Applying negative pressure around the patient's ribcage and/or abdomen as a function of the detected neural inspiratory activation

Synchronizing the triggering and termination of the application of negative pressure around the patient's ribcage and/or abdomen to the triggering and termination of the application of positive pressure to the patient's airways

